

CATALYTIC CONVERTER WITH INTEGRAL HEAT SHIELD DEVICE

ABSTRACT OF THE DISCLOSURE

A catalytic converter includes an inner liner housing a catalyst and an outer liner concentric with the inner liner. In one example, the liners are cylindrical tubes arranged between opposing dies during manufacture. The dies are moved toward one another to plastically deform the ends inwardly to form a conical flange. The forming process provides a sealed cavity between the walls of the inner and outer liners that insulates the hot catalyst housed within the inner liner from the environment exterior of the catalytic converter assembly. First and second tapered connecting tubes are welded onto the opposing ends of the catalytic converter in the area of the flange.

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